

ABSTRACT OF THE DISCLOSURE

A ground shield structure is suitable for use in a circuit structure. The ground shield structure has a plurality of ground cells that are arranged on a ground plane periodically, compactly and complementarily. The slots between the ground cells are used to reduce the eddy current generated on the ground shield structure. The ground shield structure increases the slow-wave factor to slow the waves so that the area of the circuit layout can be decreased. Besides, the ground shield structure can reduce the energy loss of the inner circuit of the circuit structure and can increase the quantities of inductance and capacitance in per unit area thereon.